

Chapter 60

Report on Global Environment

Competitiveness of Greece

Greece is located in Southeast Europe. It borders Albania, the Republic of Macedonia and Bulgaria to the north, Turkey to the east. It covers 128.9 thousand of square kilometers and has a population of 11.30 million. Its GDP reaches \$289.63 billion in 2011. Through the index system and evaluation model, the environment competitiveness index of Greece ranks at 33 in 133 countries.

Score:
53.03
Rank:
33

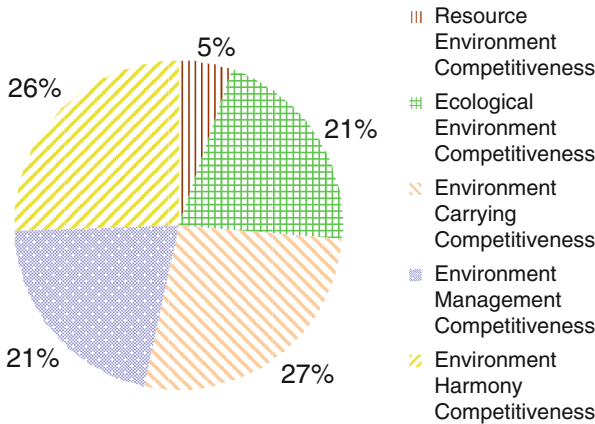


Fig. 60.1 Contribution of sub-index to GEC

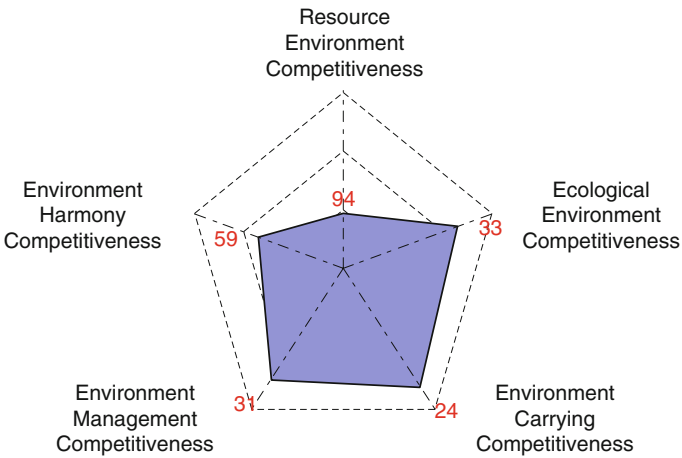


Fig. 60.2 Rank of sub-index of GEC

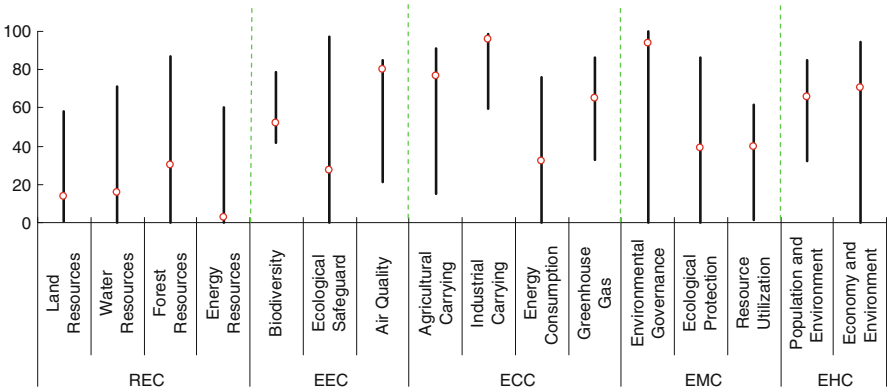


Fig. 60.3 Score and rank of the pillars of GEC

Table 60.1 Score and rank of all indicators of GEC

Indicators	Score	Rank	Indicators	Score	Rank
1 Resource Environment Competitiveness	14.36	94	Groundwater	11.47	60
1.1 Land Resources	13.76	62	Total internal renewable water resources	22.69	47
Land area per capita	2.03	78	1.3 Forest Resources	30.19	65
Percentage of arable land to total land area	32.81	41	Growing stock in forest and other wooded land	50.56	82
Arable land per capita	10.35	59	Proportion of land area covered by forest	35.74	61
1.2 Water Resources	15.70	64	Forest area per capita	2.43	60
Surface water	6.01	54	1.4 Energy Resources	2.86	102
Annual precipitation	22.63	81			

(continued)

Table 60.1 (continued)

Indicators	Score	Rank	Indicators	Score	Rank
Fossil energy	3.65	20	Annual freshwater withdrawals for industry per value added of industry	99.55	17
Energy production	0.84	65	3.3 Energy Consumption	31.95	87
Proportion of combustible renewable and waste to total energy consumption	4.17	90	Energy consumption per unit of land area	99.55	92
Net energy imports of the energy consumption	4.23	103	Ratio of clean energy consumption	5.16	69
2 Ecological Environment Competitiveness	55.93	33	Elasticity of energy consumption	13.51	94
2.1 Biodiversity	52.35	123	Elasticity of electric power consumption	9.60	101
Threatened fish species	64.62	121	3.4 Greenhouse Gas	65.18	42
Threatened mammal species	94.57	59	Growth rate of CO ₂ emissions	76.33	8
Threatened plant species	96.97	96	Growth rate of Methane emissions	57.42	76
GEF benefits index for biodiversity	2.80	66	CO ₂ emissions per unit of land area	99.27	107
2.2 Ecological Safeguard	27.58	53	CO ₂ emissions per unit of energy consumption	16.52	121
Terrestrial protected areas	43.75	42	4 Environment Management Competitiveness	55.61	31
Marine protected areas	3.32	52	4.1 Environmental Governance	93.99	48
2.3 Air Quality	79.87	25	Agricultural chemicals regulation	85.71	46
Inhalable particles (PM10)	80.29	58	Percentage of the rural population with access to an improved water source	99.00	30
Particulate matter (PM2.5)	88.76	42	Percentage of the urban population with access to an improved water source	100.00	1
Index of indoor air pollution	100.00	1	4.2 Ecological Protection	38.99	48
Nitrogen oxides emission	67.73	69	Area of plantation and afforestation	0.18	77
Sulfur dioxide emission	39.35	97	Biome protect	95.80	20
3 Environment Carrying Competitiveness	71.22	24	Overfishing of fishing resources	33.94	84
3.1 Agricultural Carrying	76.90	19	4.3 Resource Utilization	39.40	56
Cereal yield per unit of arable land	51.20	26	Utilization rate of water resources	0.51	57
Fertilizer consumption per unit of arable land	93.23	73	Percentage of total internal renewable water resources to total water resources	70.69	59
Annual freshwater withdrawals for agriculture per unit of arable land	94.84	95			
3.2 Industrial Carrying	95.74	10			
Net exports of goods as a percentage of GDP	93.34	9			
Electric power consumption per unit of value added of industry	90.44	78			
SO ₂ emissions per unit of value added of industry	99.66	84			

(continued)

Table 60.1 (continued)

Indicators	Score	Rank	Indicators	Score	Rank
Percentage of agricultural land to total land area	75.18	23	SO ₂ emissions per capita	79.29	114
Percentage of fossil fuel energy consumption to total energy consumption	11.20	95	CO ₂ emissions per capita	79.89	101
5 Environment Harmony Competitiveness	68.04	59	Energy consumption per capita	81.84	82
5.1 Population and Environment	65.60	94	5.2 Economy and Environment	70.48	25
Percentage of population with access to Improved sanitation facilities	98.00	33	Land resource utilization efficiency	0.66	26
Motor vehicles per 1,000 people	44.57	103	Sulfur dioxide emissions per unit of GDP	93.98	69
Renewable internal freshwater resources per capita	6.21	49	Carbon dioxide emissions per unit of GDP	91.07	46
			Energy consumption per unit of GDP	96.22	11

Table 60.2 Rank distribution of the individual indicators of GEC

Sub-index	Number of the individual indicators	Rank 1–10	Rank 11–30	Rank 31–60	Rank 61–100	Rank 101–133
Resource Environment Competitiveness	14	0	1	3	9	1
Ecological Environment Competitiveness	11	1	1	5	2	2
Environment Carrying Competitiveness	15	3	2	1	8	1
Environment Management Competitiveness	10	0	3	6	1	0
Environment Harmony Competitiveness	10	0	2	3	2	3
Total	60	4	9	18	22	7

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